Serial No. 10/568,275

15/3

Page 4 of 18

REMARKS

Claims 22-31 are pending in this application. Claims 1-21 have been canceled

without prejudice or disclaimer. Claim 27 has been amended. Claims 28-31 has been

newly added.

Applicant, by canceling or amending any claims herein, makes no admission as to

the validity of any rejection made by the Examiner against any of these claims. Applicant

reserves the right to reassert any of the claims canceled herein or the original claim scope

of any claim amended herein, in a continuing application.

Claim 27 has been amended to correct dependency. Specifically, claim 27 now

depends from claim 24. Support for this amendment can be found throughout the

specification and claims as originally filed.

Claim 28 has been newly added. New claim 28 is directed to the "method according

to claim 22, wherein the topical skin preparation further comprises one or more

pharmaceutically acceptable additive." Support for new claim 28 can be found throughout

the specification and claims as originally filed.

Claim 29 has been newly added. New claim 29 is directed to the "method according"

to claim 28, wherein the one or more pharmaceutically acceptable additive is selected from

the group consisting of a preservative, an antioxidant and a perfume." Support for new

claim 29 can be found throughout the specification and claims as originally filed.

Claim 30 has been newly added. New claim 30 is directed to the "method according

to claim 22, wherein the testosterone phenyl propionate is present in a concentration of

被装

from 0.1 to 1% by weight of the total preparation." Support for new claim 30 can be found

throughout the specification and claims as originally filed.

Claim 31 has been newly added. New claim 31 is directed to the "method according

to claim 27, wherein the testosterone phenyl propionate is present in a concentration of 1%

by weight of the total preparation." Support for new claim 31 can be found throughout the

specification and claims as originally filed.

No new matter has been added.

In view of the remarks set forth below, further and favorable consideration is

respectfully requested.

I. Interview

Applicant thanks Examiners Basquill and Fetterolf for conducting an interview with

Applicant's undersigned representative on July 9, 2009. During the interview each of the

rejections were discussed as well as arguments traversing the same.

II. At page 3 of the Official Action, claim 27 has been rejected under 35 USC §

112, second paragraph.

The Examiner asserts that claim 27 is improper because there is no antecedent

basis for the phrase "the testosterone phenyl propionate."

In view of the remarks set forth herein, this rejection is respectfully traversed.

Claim 27 has been amended to correct dependency. As amended, claim 27 now

depends from claim 24, which provides antecedent basis for the phrase "the testosterone

phenyl propionate."

MAIL STOP RCE Serial No. 10/568,275

Page 6 of 18

Accordingly, Applicant submits that claim 27 is clear and definite within the meaning

of 35 USC § 112. Therefore, Applicant respectfully requests that the Examiner reconsider

and withdraw this rejection.

III. At page 3 of the Official Action, claims 22-23 have been rejected under 35 USC

§ 103(a) as being unpatentable over Mazer et al. (US Patent No. 6,583,129) in

view of Shouls

The Examiner asserts that it would have been obvious to one of ordinary skill in the

art to combine the teachings of Shouls et al. with that of Mazer et al. to arrive at the

presently claimed subject matter because both the testosterone derivatives of Mazer et al.

and the testosterone phenyl propionate of Shouls et al. have been indicated as suitable for

transdermal therapy.

In view of the following, this rejection is respectfully traversed.

To establish a prima facie case of obviousness, the PTO must satisfy three

requirements. First, as the U.S. Supreme Court very recently held in KSR International Co.

v. Teleflex Inc. et al., 550 U.S. 398 (2007), "a court must ask whether the improvement is

more than the predictable use of prior art elements according to their established functions.

...it [may] be necessary for a court to look to interrelated teachings of multiple patents; the

effects of demands known to the design community or present in the marketplace; and the

background knowledge possessed by a person having ordinary skill in the art, all in order to

determine whether there was an apparent reason to combine the known elements in the

fashion claimed by the patent at issue. ...it can be important to identify a reason that would

have prompted a person of ordinary skill in the relevant field to combine the elements in

MAIL 3101 Serial No. 10/568,275 MAIL STOP RCE

1.0

Page 7 of 18

the way the claimed new invention does... because inventions in most, if not all, instances

rely upon building blocks long since uncovered, and claimed discoveries almost of

necessity will be combinations of what, in some sense, is already known." (KSR, 550 U.S.

at 417). Second, the proposed modification of the prior art must have had a reasonable

expectation of success, determined from the vantage point of the skilled artisan at the time

the invention was made. Amgen Inc. v. Chugai Pharm. Co., 18 USPQ2d 1016, 1023 (Fed.

Cir. 1991). Lastly, the prior art references must teach or suggest all the limitations of the

claims. In re Wilson, 165 USPQ 494, 496 (C.C.P.A. 1970).

With regard to motivation to combine references, MPEP 2143 discusses the

requirements of a prima facie case of obviousness. First, there must be some suggestion

or motivation to combine the reference teachings or to modify the reference, and second,

there must be a reasonable expectation of success. Finally, the prior art reference or

references when properly combined, must teach or suggest all the claim limitations.

Regarding motivation to modify properly combined references, MPEP 2143.01

states that a proposed modification cannot render the prior art unsatisfactory for its

intended purpose. If it does, then there is no suggestion or motivation to make the

proposed modification. Further, the proposed modification cannot change the principle

operation of a reference.

Regarding teaching away, MPEP 2141.02 states that prior art must be considered in

its entirety, including disclosures that teach away from the claims. See also MPEP

2145(X)(D). The Federal Circuit in Takeda v. Alphapharm found that the prior art taught

Serial No. 10/568,275

Page 8 of 18

away from the closest compound because the prior art in fact disclosed a broad selection

of compounds where the closest prior art compound exhibited negative properties that

would have led the skilled artisan away from that compound.

Applicant respectfully submits that a prima facie case of obviousness has not been

established because, whether taken alone or in combination, none of the cited references

teach or suggest each and every element of the presently pending claims, and there is no

motivation to modify the topical formulation of Mazer et al. with the testosterone propionate

described in Shouls et al.

Claim 22 is directed to a method for treating atrophy or aging of skin in women,

comprising: administering to a female subject in need thereof, a topical skin preparation

comprising a testosterone ester of an acid having between six to eleven carbon atoms,

provided that the topical skin preparation does not comprise estrogen or estrogen

derivatives. Claims 23 depends from claim 22.

In contrast to the presently pending subject matter, Mazer et al. is directed to

compositions, methods, and kits to treat women with elevated SHBG levels, or women

receiving oral estrogen supplementation, by administering an amount of an androgenic

steroid. See Mazer et al., at the abstract. Unlike the presently claimed subject matter,

Mazer et al. do not teach or suggest a method for the treatment of atrophy or aging of the

skin, as recited in present claim 22. Accordingly, Mazer et al. do not teach or suggest

administering to the specific patient population recited in the present claims.

Serial No. 10/568,275

Page 9 of 18

In this regard, Applicant notes while claim 1 of Mazer et al. recites "a method of

improving health" it does not teach a method for the treatment of atrophy or aging of the

skin as recited in present claim 22. As defined in column 8, lines 39-51, of Mazer et al., the

phrase "improving health" refers to various health conditions which are not specifically

related to atrophy or aging of the skin. In this regard, according to Mazer et al.:

'Improving health' refers to reducing, improving, or preventing the incidence and/or intensity of symptoms associated with androgenic steroid deficiency. Examples of such symptoms include but are not limited to: sexual dysfunction, which can manifest in loss of sexual desire, decreased sensitivity to sexual stimulation, decreased arousability and capacity for orgasm, diminished vital energy, depressed mood, diminished sense of well-being, increased shyness, loss of muscle mass and function, unfavorable body composition, i.e., lean to fat mass ratio, thinning and loss of pubic hair, urogenital atrophy, dry and brittle scalp hair, dry skin, decreased cognitive abilities, dry eyes, autoimmune phenomena, and a combination thereof. See Mazer et al. at column 8, lines 39-51.

Applicant respectfully submits that nowhere in Mazer et al. is a method for the treatment of atrophy or aging of the skin taught or suggested.

In addition, Applicant submits that Mazer et al. also do not teach or suggest each or suggest the administration of a topical skin preparation which *does not comprise* estrogen or estrogen derivatives, as recited in claim 22. Further Applicant submits that nowhere Mazer et al. is there a teaching or suggestion of treating atrophy or aging of the skin in women with a topical formulation comprising testosterone phenlypropionate

Shouls et al. do not remedy the deficiencies of Mazer et al. Shouls et al. describe contact allergies associated Andropatch®, i.e., a testosterone containing transdermal patch. The Examiner seems to read improperly read Shouls et al. as describing a topical

Serial No. 10/568,275

Page 10 of 18

therapeutic formulation comprising testosterone phenyl propionate. In fact, Applicant

submits that Shouls et al. does not provide any teaching or suggestion that testosterone

phenyl propionate is an effective therapeutic agent for anything, especially a topical

formulation for treating skin atrophy or aging in women.

Like Mazer et al., Shouls et al. do not teach or suggest a topical formulation (with

therapeutic activity) for treating atrophy or aging in women that comprises testosterone

phenyl propionate, as presently claimed.

With regard to testosterone phenyl propionate, nowhere in Shouls et al. is

testosterone phenyl propionate taught or suggested in a transdermal dosage form with

therapeutic activity. In this regard, Applicant respectfully reminds the Examiner that a

patch test is an allergy test where a very small amount of a substance is placed on the skin

and observed for an adverse topical reaction. A patch test does not demonstrate any

therapeutic effect. Therefore, at most, Applicant submits Shouls et al. merely shows

that it may be possible to take an injectable formulation and place it in contact with

skin to try to elicit an allergic effect.

Applicant submits that Shouls et al. does not show that Sustanon had any activity,

topical or otherwise. In this regard, Applicant notes that Table 1 of Shouls et al. indicates

that no reaction was elicited by the administration of Sustanon, topical or otherwise, which,

as best, indicates that if Sustanon were applied topically it had no effect because no

reaction or activity was observed.

MAIL STOP RCE Serial No. 10/568,275

Page 11 of 18

Furthermore, Applicant respectfully submits that just because something can be

make contact with the skin, it would not inherently suggest that that thing would be effective

as a therapeutic topical agent. Such a construction would mean that any form of matter

could be considered as being a topical formulation form because any matter could, in

theory, come in contact skin.

Applicant further submits that there would be no motivation to modify Mazer et al.

with Shouls et al. to arrive at the present subject matter because, with specific regard to

claim 23, there would be no reasonable expectation of success. In this regard, nowhere is

it taught or suggested that testosterone phenyl propionate has any therapeutic effect when

applied topically. Accordingly, Applicant submits that the presently claimed subject matter

is not obvious in view of the cited art.

In view of the remarks set forth herein, it is submitted that, whether taken alone or in

combination, Mazer et al. and Shouls et al. do not render claims 22-23 obvious within the

meaning of 35 USC § 103 (a). Accordingly, the Examiner is respectfully requested to

withdraw this rejection.

IV. At page 4 of the Official Action, claims 22-26 have been rejected under 35 USC § 103(a) as being obvious over Mazer et al. in view of De Niiis et al. (US

Patent Application No. 2005/0101517) and Friedman (US Patent No. 6,004,566).

The Examiner asserts that it would have been obvious to one of ordinary skill in the

art to combine Mazer et al. with De Nijis et al. and Friedman et al. to arrive at the presently

claimed subject matter because it would have been obvious to utilize the testosterone

phenyl propionate described in De Nijis et al. in amounts taught in Friedman et al. in the

Serial No. 10/568,275

i i i

Page 12 of 18

composition described by Mazer et al. and because the testosterone phenyl propionate of

Shouls et al. has been indicated as suitable for transdermal therapy.

In view of the following, this rejection is respectfully traversed.

An outline of the relevant authority regarding obviousness is set forth above. The

discussion of the relevant authority is incorporated herein by reference.

Applicant respectfully submits that a prima facie case of obviousness has not been

established because, whether taken alone or in combination, none of the cited references

teach or suggest each and every element of the presently pending claims, and there is no

motivation to modify the references to arrive at the presently claimed subject matter.

As discussed above, claim 22 is directed to a method for treating atrophy or aging of

skin in women, comprising: administering to a female subject in need thereof, a topical skin

preparation comprising a testosterone ester of an acid having between six to eleven carbon

atoms, provided that the topical skin preparation does not comprise estrogen or estrogen

derivatives. Claims 23-26 depend, either directly or indirectly, from claim 22.

Mazer et al. is discussed above in detail. The discussion of Mazer et al. is

incorporated herein by reference. As discussed, In contrast to the presently pending

subject matter, Mazer et al. is do not teach or suggest treating atrophy or aging of the skin

in the patient population presently claimed, namely women in need thereof. In addition,

Applicant submits that Mazer et al. also do not teach or suggest each or suggest the

administration of a topical skin preparation which does not comprise estrogen or

estrogen derivatives, as recited in claim 22. Further Applicant submits that nowhere in

Mazer et al. is there a teaching or suggestion of treating atrophy or aging of the skin in

Serial No. 10/568,275

Page 13 of 18

women with a topical formulation comprising testosterone phenlypropionate, as recited in

claim 23.

De Nijis et al. do not remedy the deficiencies of Mazer et al. De Nijis et al. is

directed to formulations of testosterone decanoate for use in humans. De Nijis et al.

merely describe an injectable formulation which comprises a testosterone derivative. De

Nijis et al. do not teach or suggest that the injectable described therein has any topical

therapeutic activity

However, whether taken alone or in combination, neither Mazer et al. nor De Nijis et

al. teach or suggest: treating the presently claimed patient population; the administration of

a topical skin preparation which does not comprise estrogen or estrogen derivatives, as

recited in claim 22; and a topical formulation with therapeutic activity which comprise

testosterone phenyl propionate, as recited in claim 23. Accordingly, whether taken alone,

or in combination, none of the cited references teach or suggest every element of the

present claims.

Freidman et al. do not remedy the deficiencies of Mazer et al. and De Nijis et al.

Friedman et al. is directed to a delivery system that includes a bioactive drug or cosmetic

substance presented in the form of submicron oil spheres alone, or drugs or cosmetic

substances in a combination with the oil spheres in an aqueous suspension or emulsion.

See Friedman et al. at the abstract.

Like Mazer et al. and De Nijis et al., Freidman et al do not teach or suggest: treating

the presently claimed patient population; the administration of a topical skin preparation

which does not comprise estrogen or estrogen derivatives, as recited in claim 22; and a

, e, , MAIL STOP RCE

Serial No. 10/568,275

Page 14 of 18

topical formulation with therapeutic activity which comprise testosterone phenyl propionate,

as recited in claim 23. Accordingly, whether taken alone, or in combination, none of the

cited references teach or suggest every element of the present claims.

Applicant further submits that there would be no motivation to modify the cited

references to arrive at the present subject matter because, with specific regard to claim 23,

there would be no reasonable expectation of success. In this regard, nowhere is it taught

or suggested that testosterone phenyl propionate has any therapeutic effect when applied

topically. Accordingly, Applicant submits that the presently claimed subject matter is not

obvious in view of the cited art.

In view of the remarks set forth herein, it is submitted that, whether taken alone or in

combination, Mazer et al., De Nijis et al. and Friedman et al. do not render claims 22-26

obvious within the meaning of 35 USC § 103 (a). Accordingly, the Examiner is respectfully

requested to withdraw this rejection.

At page 5 of the Official Action, claims 22-27 have been rejected under 35 V.

USC § 103(a) as being obvious over Mazer et al. in view of Shouls et al. and

Friedman.

The Examiner asserts that it would have been obvious to use the delivery system

described by Friedman in the topical treatment of skin disorders described by Mazer et al.

as modified by Shouls et al.

In view of the following, this rejection is respectfully traversed.

An outline of the relevant authority regarding obviousness is set forth above. The

discussion of the relevant authority is incorporated herein by reference.

Serial No. 10/568,275

Page 15 of 18

Applicant respectfully submits that a prima facie case of obviousness has not been

established because, whether taken alone or in combination, none of the cited references

teach or suggest each and every element of the presently pending claims, and there is no

motivation to modify the references to arrive at the presently claimed subject matter.

As discussed above, claim 22 is directed to a method for treating atrophy or aging of

skin in women, comprising: administering to a female subject in need thereof, a topical skin

preparation comprising a testosterone ester of an acid having between six to eleven carbon

atoms, provided that the topical skin preparation does not comprise estrogen or estrogen

derivatives. Claims 23-26 depend, either directly or indirectly, from claim 22.

Each of Mazer et al., Shouls et al. and Freidman are discussed above. The

discussion of each of the references is incorporated herein by reference. As discussed,

Mazer et al. and Shouls et al. do not render the present subject matter obvious because,

whether taken alone or together, the cited references do not teach or suggest treating the

presently claimed patient population; the administration of a topical skin preparation which

does not comprise estrogen or estrogen derivatives, as recited in claim 22; and a topical

formulation with therapeutic activity which comprise testosterone phenyl propionate, as

recited in claim 23.

Freidman do not remedy the deficiencies of Mazer et al. and Shouls et al. Like

Mazer et al. and Shouls et al. Freidman also does not teach or suggest: treating the

presently claimed patient population; the administration of a topical skin preparation which

does not comprise estrogen or estrogen derivatives, as recited in claim 22; and a topical

formulation with therapeutic activity which comprise testosterone phenyl propionate, as

... MAIL STOP RCE

Serial No. 10/568,275

铄

Page 16 of 18

recited in claim 23. Accordingly, whether taken alone, or in combination, none of the cited

references teach or suggest every element of the present claims.

Applicant further submits that there would be no motivation to modify the cited

references to arrive at the present subject matter because, with specific regard to claim 23,

there would be no reasonable expectation of success. In this regard, nowhere is it taught

or suggested that testosterone phenyl propionate has any therapeutic effect when applied

topically. Accordingly, Applicant submits that the presently claimed subject matter is not

obvious in view of the cited art.

In view of the remarks set forth herein, it is submitted that, whether taken alone or in

combination, Mazer et al., Shouls et al. and Friedman do not render claims 22-27 obvious

within the meaning of 35 USC § 103 (a). Accordingly, the Examiner is respectfully

requested to withdraw this rejection.

VI. New claims 28-31

Claims 28-31 have been newly added. New claim 28 is directed to the "method

according to claim 22, wherein the topical skin preparation further comprises one or more

pharmaceutically acceptable additive." New claim 29 is directed to the "method according

to claim 28, wherein the one or more pharmaceutically acceptable additive is selected from

the group consisting of a preservative, an antioxidant and a perfume." New claim 30 is

directed to the "method according to claim 22, wherein the testosterone phenyl propionate

is present in a concentration of from 0.1 to 1% by weight of the total preparation." New

MAIL STOP RCE Serial No. 10/568,275 Page 17 of 18

claim 31 is directed to the "method according to claim 27, wherein the testosterone phenyl propionate is present in a concentration of 1% by weight of the total preparation."

Applicants respectfully submit that new claims 28-31 are both novel and nonobvious. Accordingly, Applicants respectfully request an indication that all of the pending claims are now allowable.

Serial No. 10/568,275

Page 18 of 18

CONCLUSION

In view of the foregoing, Applicant submits that the application is in condition for

immediate allowance. Early notice to that effect is earnestly solicited. The Examiner is

invited to contact the undersigned attorney if it is believed that such contact will expedite

the prosecution of the application.

In the event this paper is not timely filed, Applicant petitions for an appropriate

extension of time. Please charge any fee deficiency or credit any overpayment to Deposit

Account No. 14-0112.

Respectfully submitted,

THE NATH LAW GROUP

Susanne M. Hopkins Registration No. 33,247

Ari G. Zytcer

Registration No. 57,474 Customer No. 20259

Date: September 18, 2009 THE NATH LAW GROUP

112 South West Street Alexandria, VA 22314

Tel: (703) 548-NATH Fax: (703) 683-8396